ABC LABORATORIES, INC. **EAST 4922 UNION AVENUE** SPOKANE, WA 99219 509-534-0161

SUPERFUND BRANCH

REPORT TO: Spokane County Dept. of Utilities

N. 811 Jefferson

Spokane, WA 99210

LAB NO: 33602-90

DATE: 5-18-90

SAMPLE DATE: MAY

ATTN:

Bruce Austin

P.0.#:

DESCRIPTION: Perform Volatile Organic Scan on 22 submitted samples from the wells in the Colbert Landfill area. Analyses performed by methods outlined in proposal of December 8th, 1988.

DETECTION LIMITS: 1 part per billion

ND: Not Detected

This document contains eight pages.

Respectfully Submitted, ABC LABORATORIES, INC.

W.E. Burkhardt

Manager

Spokane County Dept. of Utilities Lab NO. 33602-90

NAME:	Blank	Travel — Blank	Blank	Blank	Travel	Blank
WELL #:						
DATE PERFORMED:	5-10-90	5-10-90	5-11-90	5-11-90	5-11-90	5-12-90
Chloroform	ND	ND	ND	ND	ND	NĎ
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND
1,1-Dichlöroethylene	ND	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	· ND	ND	ND	NĎ
1,1,1-Trichloroethane	ÑĎ	ND	ND	NĎ	ND	ND
Tetrachloroethylene	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	· ND	ND	ND	ND	HD
1 - Pentene	ND	ND	ND	ND	ND	ND
Cyclopentana	NĎ	ND	ND	ND	ND	ND
Trans 2-Hexene	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND
Tol uene	ND	ND	ND	ND	ND	ND
Ethylene Di Bromide	ND	ND	ND	ND	ND .	ND
Ethyl Benzene	ND	ND	ND	ND	ND	ND
M-xylene	ND	ND	ND	ND	ND	ND
0-xylene	ND	ND	ND	ND	ND	ND
P-xylene	ND	ND	ND	ND	ND	ND
Cumene	ND	ND .	ND	ND	ND	ND
1,2,4-Trimethyl Benzene	ND	ND	ND	ND	ND	ND
P-cymene	ND	ND	ND	ND	ND	
Chlorobenzene	NĎ	ND	ND	ND	ND	ND
M-dichlorobenzene	ND	ND	ND	NĎ	ND ND	ND
O-dichlorobenzene	ND	ND	ND	ND	ND	ND ND
P-dichlorobenzene	ND	ND	ND	ND	ND ND	ND
Methyl Ethyl Ketone	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND
Bromodichioromethane	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND ND		
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND		ND	ND
1,2-Dichloroethane	ND	ND	ND ND	ND	ND	ND
Trans 1,2-Dichloroethane	ND	ND	ND	ND ND	ND	ND
Trans 1,2-Dichloroethylene	ND	ND	ND	ND ND	ND ND	ND ND
1,2-Dichloropropane	ND	ND	NĎ	ND	ND ND	ND
Cis 1,3-Dichloropropylene	ND	ND	ND	ND	ND ND	ND ND
Trans 1,3-Dichloropropylene	ND	NĎ	ND	ND	ND ND	ND ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND
1,1,2,-richloroethane	ND	ND	ND	ND		
2-Chloroethylvinyl Ether	ND	ND	ND	ND	ND ND	ND ND
~ Sinoi octugivingi Ethei	ıψ	HP	NU	พบ	MU	ND

Spokane County Dept. of Utilities Lab NO. 33602-90

NAME:	Blank	Travel	(b) (6)			
WELL #:	-	Blank #5	1573D-1	1573R-1	1073D-1	1573E-1
DATE PERFORMED:	5-12-90	5-15-90	5-10-90	5-10-90	5-10-90	5-11-90
Chloroform 1,1-Dichloroethane 1,1-Dichloroethylene	ND ND ND	ND ND ND	ND ND ND	ND ND	ND ND	ND ND
Trichloroethylene	ND	ND	ND	ND ND	ND ND	ND ND
1,1,1-Trichloroethane Tetrachloroethylene	ND ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND ND	ND ND	ND ND	ND ND	ND ND
1 - Pentene	ND	ND	ND	ND	ND	· ND
Cyclopentane	ND	ND	ND	ND	ND	ND
Trens 2-Hexene	ND	ND	ND	ND	ND	ND
Benzene	NĎ	ND	ND	ND	ND	ND
Toluene Ethylene Di Bromide	ND	ND	ND	ND	ND	ND
Ethul Benzene	ND ND	ND ND	ND	ND	ND	ND
M-xylene	ND	ND	ND ND	ND	ND	NĎ
O-xylene	ND	ND	ND	ND ND	ND ND	ND ND
P-xylene	ND	NĎ	ND	ND	ND	ND
Cumene	ND	ND	ND	ND	ND	ND
1,2,4-Trimethyl Benzene	ND	ND	ND	ND	ND	ND
P-cymene	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND
M-dichlorobenzene	ND	ND	ND	ND	ND	ND
O-dichlorobenzene	ND	ND	ND	ND	ND	ND
P-dichlorobenzene	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	NĎ
Bromodichloromethene	ND	ND	ND	ND	ND	ND
Bromoform Combon Todayahlandda	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride Dibromochloromethane	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethane	ND	ND ND	ND ND	ND	ND	ND
Trans 1,2-Dichloroethylene	ND	ND	ND ND	ND ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND ND	ND ND
Cis 1,3- Dichloropropulene	ND	ND	ND	ND	ND	ND
Trans 1,3-Dichloropropulene	ND	ND	ND	NĎ	ND ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND
1,1,2,-richloroethene	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	ND	ND	ND	ND	NĎ	ND

Spokane County Dept. of Utilities Lab NO. 33602-90

(b) (6)

NAME:

Milita.						
WELL :	0273P-3	0273P-3	1473M-1	1 473M-1	1673H-1	1573 K-2
		Confirming		Confirming		
DATE PERFORMED:	5-11-90	5-11-90	5-11-90	5-11-90	5-12-90	5-11-90
Chloroform	ND	ND	ND	ND	ND	NĎ
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	2	2	ND	ND	ND	ND
Trichloroethylene	ND	ND	NĎ	ND	ND	ND
1,1,1-Trichloroethane	45	41	14	14	ND	ND
Tetrachloroethylene	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND.	ND	ND	ND	ND	ND
1 - Pentene	ND	NĎ	ND	ND	ND	ND '
Cyclopentane	ND	NĎ	ND	ND	ND	ND
Trans 2-Hexana	NĎ	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND
Ethylene Di Bromide	ND	ND	NĎ	ND	ND .	ND
Ethyl Benzene	ND	ND	ND	ND	ND	ND
M-xylene	ND	ND	ND	ND	ND	ND
O-xylene	ND	ND	ND	ND	ND	ND
P-xylene	ND	ND	ND	ND	ND	ND
Cumene	ND	ND	ND	ND	ND	ND
1,2,4-Trimethyl Benzene	ND	ND ·	ND	ND	ND	ND
P-cymene	NĎ	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND
M-dichlorobenzene	ND	ŊD	ND	ND	ND	ND
O-dichlorobenzene	ND	ND	ND	ND	ND	ND
P-dichlorobenzene	ND	ND:	ND	ND	ND	ND
Methyl Ethyl Ketone	ND	ND	NĎ	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	NĎ	ND
Carbon Tetrachloride	NĎ	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	· ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethylene	ND	ND.	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	NĎ	ND	ND	ND
Cis 1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND
Trans 1,3-Dichloropropylene	ND	NĎ	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND
1,1,2,-richloroethene	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	ND	ND	ND	ND	ND	ND

Spokene County Dept. of Utilities Lab NO. 33602-90

NAME:	(b) (6)				North Glen	North Glen
WELL #:	0273E-1	0273E-1 Confirming	1573H-3	0273E-2	1073D-2	1073D-2 Confirming
DATE PERFORMED:	5-10-90	5-10-90	5-11-90	5-11-90	5-11-90	5-11-90
Chloroform 1,1-Dichloroethene 1,1-Dichloroethylene	ND ND 2	NĎ ND 2	ND ND	ND ND	ND ND	ND ND
Trichloroethylene 1,1,1-Trichloroethane	ND 86	ND 81	ND ND ND	ND ND ND	ND ND 4	ND ND 3
Tetrachloroethylene Methylene Chloride 1-Pentene	ND ND ND	ND ND ND	ND ND ND	ND ND ND	ND ND ND	ND '
Cyclopentane Trans 2-Hexene Benzene	ND ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
Toluene Ethylene DiBromide	ND ND	ND ND ND	ND ND ND	ND ND ND	ND ND ND	ND ND ND
Ethyl Benzene M-xylene O-xylene	ND ND ND	ND ND ND	ND ND ND	ND ND ND	ND ND ND	ND ND ND
P-xylene Cumene 1,2,4-Trimethyl Benzene	ND ND ND	ND ND ND	ND ND ND	ND ND ND	ND ND	ND ND ND
P-cymene Chlorobenzene	ND ND	ND ND	ND ND	ND ND	ND ND ND	ND ND
M-dichlorobenzene O-dichlorobenzene P-dichlorobenzene	ND ND ND	ND ND ND	ND ND ND	ND ND ND	ND ND ND	ND ND ND
Methyl Ethyl Ketone Acetone Bromodichloromethene	ND ND ND	ND ND ND	ND ND ND	ND ND	ND ND	ND ND
Bromoform Carbon Tetrachloride	ND ND	ND ND	ND ND	ND ND ND	ND ND ND	ND ND ND
Dibromochloromethane 1,2-Dichloroethane Trans 1,2-Dichloroethane	ND ND ND	ND ND ND	ND ND ND	ND ND ND	ND ND ND	ND ND ND
Trans 1,2-Dichloroethylene 1,2-Dichloropropane	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
Cis 1,3-Dichloropropylene Trans 1,3-Dichloropropylene 1,1,2,2-Tetrachloroethane	ND ND ND	ND ND ND	ND ND ND	ND ND ND	ND ND ND	ND ND ND
1,1,2,-richloroethane 2-Chloroethylvinyl Ether	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND

Spokene County Dept. of Utilities Lab NO. 33602-90

4		(b) (6)				
NAME:	North Meadows	(b) (6)				
WELL #:	10730-4	1573C-6	0273P-5	0273P-5	1573C-4	0373L-1
	1.0.1.04	1.3.1.30=0	U21.JF=J	Confirming	1.3.1.36=4	
DATE PERFORMED:	5-12-90	5-15-90	5-10-90	5-10-90	5-11-90	5-16-90
	2 .2	0 10 70	0 .0 70	0 10 70	3 11 70	0 10 70
Chloroform	ND	ND	. ND	ND	NĎ	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ND	ND	14	13	ND	ND
Trichloroethylene	ND	ND	, ND	ND	NĎ	ND
1,1,1-Trichloroethane	ND	ND	201	197	ND	10
Tetrachioroethylene	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND
1 - Pentene	NĎ	ND	ND	ND	ND	NĎ
Cyclopentane	ND	ND	ND	ND	ND	ND
Trans 2-Hexene	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND
Toluene	NĎ	ND	ND	ND	ND	ND
Ethylene Di Bromide	ND	ND	ND	ND	ND	ND
Ethyl Benzene	ND	ND	ND	ND	ND	ND
M-xylene	ND	ND	ND	ND	ND	ND
0-xylene	ND	ND	ND	ND	ND	ND
P-xyléne	ND	ND	ND	ND	ND	ND
Cumena	ND	ND	ND	ND	ND	ND
1,2,4-Trimethyl Benzene	ND	ND	ND	ND	ND	ND
P-cymene	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND
M-dichlorobenzene	ND	ND	ND	ND	ND	ND
O-dichlorobenzene P-dichlorobenzene	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone Acetone	ND ND	ND	ND	ND .	ND	ND
Bromodichloromethane	ND	ND ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND ND	ND	ND	ND
Di bromochloromethane	ND ND	ND	ND ND	ND	ND	ND
1,2-Dichloroethane	ND	NĎ	ND	ND ND	ND - ND	ND
Trans 1,2-Dichloroethane	ND	ND	ND	ND ND	ND ND	ND ND
Trans 1,2-Dichloroethylene	ND	ND	ND	ND	ND ND	ND
1,2-Dichloropropene	ND	ND	ND	ND	ND	ND
Cis 1,3-Dichloropropulene	ND	ND	ND	ND	ND	ND
Trans 1,3-Dichloropropylene	ND	ND	ND	ND	ND	NĎ
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND
1,1,2,-richloroethane	ND	NĎ	ND	ND	ND	ND
2-Chloroethylvinyl Ether	ND	ND	ND	ND	ND	ND
					•••	

Spokene County Dept. of Utilities Lab NO. 33602-90

NAME:	(b) (6)	Suburan	(b) (6)			
		Water				
WELL #:	0373L-1	2273M-1	1573B-3	1573B-3	0373J-5	0373J-5
	Confirming		=	Confirming		Confirming
DATE PERFORMED:	5-16-90	5-15-90	5-15-90	5-15-90	5-11-90	5-11-90
Chloroform	ŃD	ND	ND	ND	ND	ND
1,1-Dichloroethene	. ND	ND	ND	ND	6	6
1,1-Dichloroethylene	ND	ND	. 1	<1	13	12
Trichloroethylene	ŅĎ	ND	, ND	ND	ND	ND
1,1,1-TrichToroethane	10	ND	40	38	55	51
Tetrachloroethylene	ND	ND	ND	ND	ND	ND
Methylene Chloride 1-Pentene	ND	ND	ND	ND	ND	. ND
Cyclopentane	ND ND	ND	ND	ND	ND	ND
Trans 2-Hexene	ND	ND ND	ND	ND	ND	ND
Benzene	ND ND	ND	ND	ND	ND	ND
Tol uene	ND	ND	ND ND	ND ND	ND ND	ND ND
Ethylene Di Bromide	ND	ND	ND	ND	ND ND	ND ND
Ethyl Benzene	ND	ND	ND	NĎ	ND	ND
M-xylene	ND	ND	ND	NĎ	ND	ND
0-xylene	ND	NĎ	ND	ND	ND	NĎ
P-xylene	ND	ND	ND	ND	ND	ND
Cumene	ND	ND	ND	ND	ND	ND
1,2,4-Trimethyl Benzene	ND	ND.	ND	ND	ND	ND
P-cymene	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND
M-dichlorobenzene	ND	ND	ND	ND	ND	ND
O-dichlorobenzene	ND	ND	ND	ND	ND	ND
P-dichlorobenzene	ND	ND	ND	NĎ	ND	ND
Methyl Ethyl Ketone	ND	ND	ND	ND ·	ND	ND
Acetone	ND	ND	ND	ND	ND	ND
Bromodichioromethane	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	NĎ
Carbon Tetrachioride	ND	ND	NĎ	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethans	ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethylene	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	NĎ
Cis 1,3-Dichloropropulene	ND	ND	ND	ND	ND	ND
Trans 1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND
1,1,2,-richloroethane	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	ND	NĎ	ND	ND	ND	ND

Spokene County Dept. of Utilities Lab NO. 33602-90

			(b) (6)
NAME:	Wahoo	Wahoo	(b) (b)
	Water	Water	
WELL #:	1073J-2	1073J-2	1573C-8
DATE DEDECORMEN	F 44 00	Confirming	F 46 65
DATE PERFORMED:	5-11-90	5-11-90	5-12-90
Chloroform	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND
Trichloroethylene	ND	ND	ND
1,1,1-Trichloroethane	2	2	ND
Tetrachloroethylene	ND	NĎ	ND
Methylene Chloride	ND	ND	ND
1 - Pentene	ND	ND	ND
Cyclopentane	ND	ND	ND
Trana 2-Hexene	ND	ND	ND
Benzene	ND	ND	. ND
Toluene	ND	ND	ND
Ethylene DiBromide	ND	ND	ND
Ethyl Benzene	ND	ND	ND
M-xylene	ND	ND	ND
O-xylene	ND	ND	ND
P-xylene	NĎ	ND	ND
Cumene	ND	ND	ND
1,2,4-Trimethy) Benzene	ND	ND	ND
P-cymene	ND	NĎ	ND
Chlorobenzene	ND	ND	ND
M-dichlorobenzene	ND	ND	ND
O-dichlorobenzene	ND	ŃD	ND
P-dichlorobenzene	ND	ND	ND
Methyl Ethyl Ketone	ND	ND	ND
Acetone	ND	ND	ND
Bromodichloromethane	ND	ND	ND
Bromoform	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND
Dibromochloromethane	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND
Trans 1,2-Dichloroethane	ND	ND	ND
Trans 1,2-Dichloroethylene	NĎ	ND	ND
1,2-Dichloropropane	ND	ND	NĎ
Cis 1,3-Dichloropropylene	ND	ND	ND
Trans 1,3-Dichloropropylene	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND
1,1,2,-richloroethane	ND	ND	ND
2-Chloroethylvinyl Ether	ND	ND	ND

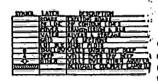
ARBA 05-01-89

NOTE

PERFORMANCE STANDARDS

HAXIMAN ALLOHABLE CONTAMINANT CONCENTRATIONS





Health Protection Levels*

Health Protection Levels are not to be exceeded, during operational life of the form of containing the first of the form of containing the containing t

TO IDENTIFICATION OF VILLS Haximum Concentration Contaminant parts per billion (ug/1) Basts 1,1,1-Trichlorosthans (TCA) 200.0 HCL 118 1.1-Dichloroethylene (DCE) 7.0 HCL 1,1-Dichloroethane (DCA) 4030.0 HAC Trichloroethylene (TCE) 5.0 HC1 Tetrachloroethylene (PCE or TETRA CL) 0,7 10 -6 cancer risk Hethylene Chloride (HC) 2.5 10 -8 cancer risk 42 8 200 14/4/ (b) (6) --בנונו دَنِهُا MY 18. 50 233031-39 VELL 9 111-1CA 11-DCA 1CL 1119ACS DELONOCOSO HETH CHICA . MILL 6 111-150 11-051 11-058 151 111855 00 15778-1 36 11 190 190 190 191 11775-6 190 190 190 190 190 11775-6 190 190 190 190 190 (b) (6) SKALLOW 1/2/34 HELL # 111-TCA 12-DCE 11-DCA TCE TETRACL CHLOROFORM METH CHLOS (b) (6) 18224-1 110 100 100 22773 OLLP NAT 18. NO \$33082-NO WILL & 111-1CA 11-0CE 11-DCA 1CE TETRACE CHICROSCOPA HETH CHICOS. SURVARIAN HILLION 227781-1 110 100 110 110 110 110 110 335---